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Pointer cache assisted prefetching

Jamison Collins, Suleyman Sair, Brad Calder, Dean M. Tullsen November 2002 MICRO 35: Proceedings of the 35th annual ACM/IEEE inter Microarchitecture

Publisher: IEEE Computer Society Press

Full text available: Publisher Site , Pdf (1.21 MB) Additional Information: full citation,

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 40, Citation

Data prefetching effectively reduces the negative effects of long load lat modern processors. Hardware prefetchers employ hardware structures to addresses based on previous patterns. Thread-based prefetchers ...

2 Speculative execution in a distributed file system Edmund B. Nightingale, Peter M. Chen, Jason Flinn

October 2005 SOSP '05: Proceedings of the twentieth ACM symposium on (

Publisher: ACM Peguest Permissions Full text available: Pdf (305.54 KB)

Additional Information: full citation, abstract, re review

Bibliometrics: Downloads (6 Weeks): 11. Downloads (12 Months): 164. Citatic

Speculator provides Linux kernel support for speculative execution. It al share speculative state by tracking causal dependencies propagated thr communication. It guarantees correct execution by preventing ...

Keywords: causality, distributed file systems, speculative execution

Also published in:

October 2005 SIGOPS Operating Systems Review Volume 39 Issue 5

3 Speculative execution in a distributed file system

Edmund B. Nightingale, Peter M. Chen, Jason Flinn

November 2006 Transactions on Computer Systems (TOCS), Volume 24 I Publisher: ACM Pequest Permissions

Full text available: Pdf (1.11 MB)

Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 116, Citation

Speculator provides Linux kernel support for speculative execution. It al.

share speculative state by tracking causal dependencies propagated thr communication. It guarantees correct execution by preventing speculati

Keywords: Distributed file systems, causality, speculative execution

4 Rethink the sync

Edmund B. Nightingale, Kaushik Veeraraghavan, Peter M. Chen, Jason Flini September 2008 Transactions on Computer Systems (TOCS). Volume 26

Publisher: ACM ♣ Request Pennissions
Full text available: ♠ Pdf (387.05 KB)

Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 382, Citatic

We introduce external synchrony, a new model for local file I/O that prosimplicity of synchronous I/O, yet also closely approximates the perforn An external observer cannot distinguish the output ...

Keywords: File systems, causality, speculative execution, synchronous

5 A compiler framework for speculative optimizations

Full text available: Pdf (466.65 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 9. Downloads (12 Months): 73. Citation

Speculative execution, such as control speculation or data speculation, i program performance. Using edge/path profile information or simple he frameworks can adequately incorporate and exploit ...

**Keywords**: Data speculation, partial redundancy elimination, register p form, speculative weak update

6 The Jrpm system for dynamically parallelizing Java programs

Michael K. Chen, Kunle Olukotun

June 2003 ISCA '03: Proceedings of the 30th annual international sympos architecture

Publisher: ACM

Full text available: Pdf (320.42 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 65, Citation

We describe the Java runtime parallelizing machine (Jrpm), a complete sequential programs automatically. Jrpm is based on a chip multiproces speculation (TLS) support. CMPs have low sharing and communication.

Also published in:

May 2003 SIGARCH Computer Architecture News Volume 31 Issue 2

A cost-driven compilation framework for speculative parallelization of

Zhao-Hui Du, Chu-Cheow Lim, Xiao-Feng Li, Chen Yang, Qingyu Zhao, Tin-June 2004 PLDI '04: Proceedings of the ACM SIGPLAN 2004 conference o design and implementation

Publisher: ACM Pequest Permissions

Full text available: Pdf (235.14 KB) Additional Information: full citation, abstract, re-

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 99, Citation

The emerging hardware support for thread-level speculation opens new sequential programs beyond the traditional limits. By speculating that m unlikely during runtime, consecutive iterations of a sequential ...

Keywords: cost-driven compilation, loop transformation, speculative m parallel threading, speculative parallelization, thread-level speculation

Also published in:

June 2004 SIGPLAN Notices Volume 39 Issue 6

8 Bloom filtering cache misses for accurate data speculation and prefe Jih-Kwon Peir, Shih-Chang Lai, Shih-Lien Lu, Jared Stark, Konrad Lai

June 2002 ICS '02: Proceedings of the 16th international conference on S Publisher: ACM Pequest Permissions

Full text available: Pdf (248.57 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 60, Citation

A processor must know a load instruction's latency to schedule the load the correct time. Unfortunately, modern processors do not know this lat dependent instructions should have been scheduled to ...

Keywords: bloom filter, data cache, data prefetching, data speculation

9 Dynamic performance tuning for speculative threads

Yangchun Luo, Venkatesan Packirisamy, Wei-Chung Hsu, Antonia Zhai. Nik June 2009 ISCA '09: Proceedings of the 36th annual international sympos architecture

Publisher: ACM Propert Permissions

Full text available: Pdf (460.67 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 99. Downloads (12 Months): 99. Citation

In response to the emergence of multicore processors, various novel an models have been introduced to fully utilize these processors. One such Level Speculation (TLS), which allows potentially dependent ...

Keywords: dynamic optimization, multicore, parallelism, thread-level s

Also published in:

June 2009 SIGARCH Computer Architecture News Volume 37 Issue 3

<sup>10</sup> Predictor-directed stream buffers

Timothy Sherwood, Suleyman Sair, Brad Calder

December 2000 MICRO 33: Proceedings of the 33rd annual ACM/TEEE inter Microarchitecture

Publisher: ACM

Full text available: Publisher Site , Pdf (187.89 KB), Ps (1.12 MB) Additional Info

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 45, Citation

11 Early load address resolution via register tracking

Michael Bekerman, Adi Yoaz, Freddy Gabbay, Stephan Jourdan, Maxim Kal-June 2000 ISCA '00: Proceedings of the 27th annual international sympos architecture

Publisher: ACM

Full text available: Pdf (143.17 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 32, Citation

Higher microprocessor frequencies accentuate the performance cost of respecially noticeable in the Intel's IA32 architecture where lack of regist number of memory accesses. This paper presents novel, ...

## Also published in:

May 2000 SIGARCH Computer Architecture News Volume 28 Issue 2

12 Unbounded page-based transactional memory

Weihaw Chuang, Satish Narayanasamy, Ganesh Venkatesh, Jack Sampson Gilles Pokam, Brad Calder, Osvaldo Colavin

November 2006 ASPLOS-XII: Proceedings of the 12th international confere for programming languages and operating systems

Publisher: ACM Pequest Permissions

Full text available: Pdf (242.68 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 102, Citation

Exploiting thread level parallelism is paramount in the multicore era. Tri programmers to expose such parallelism by greatly simplifying the mult model. Virtualized transactions (unbounded in space and time) are ....

 $\textbf{Keywords}: \ concurrency, \ parallel \ programming, \ transactional \ memory,$ 

## Also published in:

October 2006 SIGOPS Operating Systems Review Volume 40 Issue 5 October 2006 SIGARCH Computer Architecture News Volume 34 Issue 5 November 2006 SIGPLAN Notices Volume 41 Issue 11

13 InvisiFence; performance-transparent memory ordering in convention Colin Blundell, Milo M.K. Martin, Thomas F. Wenisch

June 2009 ISCA '09: Proceedings of the 36th annual international sympos architecture

Publisher: ACM Pequest Permissions

Full text available: Pdf (496.89 KB) Additional Information: full cliation, abstract, re

Bibliometrics: Downloads (6 Weeks): 63. Downloads (12 Months): 63. Citation

A multiprocessor's memory consistency model imposes ordering constreatomic operations, and memory fences. Even for consistency models the and stores, ordering constraints still induce significant ....

Keywords: memory consistency, parallel programming

Also published in:

June 2009 SIGARCH Computer Architecture News Volume 37 Issue 3

14 Copy or Discard execution model for speculative parallelization on m Chen Tian, Min Feng, Vijay Nagarajan, Bajiv Oupta November 2008 MICRO '08: Proceedings of the 2008 41st IEEE/ ACM I

on Microarchitecture - Volume 00 , Volume 00

Publisher: IEEE Computer Society

Full text available: Pdf (809.07 KB)

Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 10. Downloads (12 Months): 48. Citation

The advent of multicores presents a promising opportunity for speeding profile-based speculative parallelization of these programs. In this pape for efficiently supporting software speculation on ...

15 Software thread-level speculation: an optimistic library implementatic Cosmin E. Cancea, Alan Mycroft

May 2008 IWMSE '08: Proceedings of the 1st international workshop on engineering

Publisher: ACM

Full text available: Pdf (242.51 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 102, Citation

Software thread level speculation (TLS) solutions tend to mirror the har they employ one, exact dependency-tracking mechanism. Our perspecti is, perhaps, better exploited by a family of lighter, ...

Keywords: template metaprogramming, thread-level speculation (TLS)

16 ECMon: exposing cache events for monitoring

Vijay Nagarajan, Rajiv Gupta

June 2009 ISCA '09: Proceedings of the 36th annual international sympos architecture

Publisher: ACM Pequest Permissions

Full text available: Pdf (1.31 MB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 51, Citation

The advent of multicores has introduced new challenges for programme performance and software reliability. There has been significant interest software speculation to better utilize the computational power ...

Keywords: cache events, recording for replay, speculation past barrier

Also published in:

June 2009 SIGARCH Computer Architecture News Volume 37 Issue 3

17 A novel approach to parenting in functional program evaluation Julian R. Dermoudy

February 2003 ACSC '03: Proceedings of the 26th Australasian compu Volume 16, Volume 16

Publisher: Australian Computer Society, Inc.

Full text available: Pdf (86.13 KB) Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 4, Citation C

The ability for multiple threads to enter the same graph node without  $\alpha$  necessary component of the graph reduction of functional languages sin shared. Shared closures, however, compound the difficulty ...

Keywords: concurrency, distributed systems, functional programming

18 Scheduling speculative tasks in a compute farm David Petrou, Garth A. Gibson, Gregory R. Ganger

November 2005 SC '05: Proceedings of the 2005 ACM/IEEE conference on \$

Publisher: IEEE Computer Society

Full text available: Pdf (670.34 KB)

Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 11, Citation

Users often behave speculatively, submitting work that initially they do computing often consists of single node speculative tasks issued by, e.g dna sequences and computer graphics artists rendering ...

19 Memory forwarding: enabling aggressive layout optimizations by gua data relocation

Chi-Keung Luk, Todd C. Mowry

May 1999 ISCA '99: Proceedings of the 26th annual international sympos architecture

Publisher: ACM

Full text available: Publisher Site , Pof (196.77 KB) Additional Information: full citation index terr

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 27, Citation

By optimizing data layout at run-time, we can potentially enhance the p actively creating spatial locality, facilitating prefetching, and avoiding casharing. Unfortunately, it is extremely difficult to guarantee ...

Also published in:

May 1999 SIGARCH Computer Architecture News Volume 27 Issue 2

20 SableSpMT: a software framework for analysing speculative multithr Christopher J. F. Pickett, Clark Verbrugge

January 2006 PASTE '05: Proceedings of the 6th ACM SIGPLAN-SIGSOFT w for software tools and engineering Publisher: ACM Pequest Permissions

Full text available: Pdf (602.03 KB) Additional Information: full cliation, abstract, re

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 43, Citation

Speculative multithreading (SpMT) is a promising optimisation techniquexecution of sequential programs on multiprocessor hardware. Analysis such systems is however difficult and complex, and is typically ...

**Keywords**: java, profiling, speculative multithreading, static and dynan speculation, virtual machines

Also published in:

January 2006 SIGSOFT Software Engineering Notes Volume 31 Issue 1

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